



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Solid Manure Staging

www.idem.IN.gov

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue, Mail Code 50-07, Indianapolis, IN 46204
Phone: (317) 232-8587 Toll Free: (800) 451-6027

Description:

- Manure staging is the temporary placement of manure in a pile at a site where the manure will be land applied (327 IAC 16-10-3).
- As described in this fact sheet, solid manure staging is most commonly related to poultry animal waste, although it may apply to other species with animal wastes that are not liquid.
- This applies to manure which is generated at an animal feeding operation (AFO), confined feeding operation (CFO) or concentrated animal feeding operation (CAFO) within the state of Indiana or another state and is staged in Indiana. If the originating farm is large enough to be considered a CFO or CAFO in Indiana, the manure must be staged in compliance with requirements specified in Indiana Administrative Code (327 IAC 16-1-1).
- In the state of Indiana, farms confining 300 cattle, 600 swine or sheep, or 30,000 fowl are large enough to be considered a CFO (327 IAC 16-2-5).
- In the state of Indiana, farms with animal numbers larger than those of a CFO or who have had a water quality violation are considered a CAFO (327 IAC 5-4-3).
- Even farms that are not large enough to qualify as a CFO must manage their manure so it does not cause a discharge in violation of state statute (IC 13-30-2-1). It is recommended that small farms also follow the manure staging requirements.
- The land owner is responsible for ensuring that manure staged is managed according to the manure staging requirements.

Environmental Impacts:

- Statutes and regulations for manure storage and application are designed to protect water quality.
- Properly stored or staged manure is protective of water quality. Following the staging requirements and best management practices will limit environmental impacts to water.

IDEM's Role:

- The Indiana Department of Environmental Management (IDEM) is responsible for protecting Hoosiers and our environment while providing for safe industrial, agricultural, commercial and government activities vital to a prosperous economy.
- IDEM's Office of Land Quality regulates the staging of manure in the state of Indiana through compliance monitoring and complaint inspections.
- IDEM has developed staging requirements that are the responsibility of the landowner. The agency has also established best management practices (BMP) for application of staged manure.

- Manure staged for more than 72 hours must be:
 - Effectively covered or bermed to prevent run-on and run-off.
 - Land applied to the site within 90 days of staging.
 - In an area with a slope less than six percent.
 - In an area that does not have standing water.
 - In an area that is not within 300 feet of an intermittent waterway.
 - In an area that is not within 300 feet of waters of the state.
- IDEM established the following Best Management Practices (BMP) for application:
 - Manure applied to the land must be applied at an agronomic rate for the crop that is to be planted.
 - Apply manure when the crops can best use the nutrients.
 - Pay attention to weather forecasts prior to applying manure. Avoid applying prior to forecasted rainfall events; this will help prevent runoff.
 - The use of insecticide to help control vectors such as flies and beetles may be beneficial at staged manure sites in populated areas.
- IDEM is developing a nonrule policy document that will supplement this interim fact sheet to fully address manure staging. Once developed, the nonrule policy document will be submitted to the Indiana Water Pollution Control Board.

Citizen's Role:

- The landowners and citizens of Indiana play an important role in the protection of water quality through proactive measures designed to prevent impacts.
- IDEM currently does not regulate odor from staged manure, however consideration should be given to nearby homes and manure should be stored in a location and manner to minimize any nuisance conditions.
- Citizens who have concerns about improperly staged manure may contact IDEM to report observed water quality violations.
- If manure has littered public roadways, citizens are directed to report leaky loads to the appropriate policing authority, city, county or state depending upon the type of roadway and IDEM's spill line at (888) 233-7745 (IC 9-21-8-48).

More Information:

For more information, contact IDEM's Agricultural Liaison at (317) 232-8587 or IDEM's Agriculture and Solid Waste Compliance Section Chief at (317) 308-3115.

Additional information about confined feeding operations can be found on these websites:

IDEM Home Page: www.in.gov/idem

Confined Feeding Rule: www.in.gov/legislative/iac/T03270/A00160.PDF

Prohibited Acts Statute: www.in.gov/legislative/ic/code/title13/ar30/ch2.html

Leaky Load Law: <http://www.in.gov/legislative/ic/code/title9/ar21/ch8.html>

Control of Poultry Pests: www.extension.entm.purdue.edu/publications/E-3.pdf

CAFO Topics: www.ansc.purdue.edu/cafo/